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LEE & HAYES PLLC 421 W RIVERSIDE AVENUE SUITE 500 SPOKANE, WA 99201			SHAH, AMEE A	
			ART UNIT	PAPER NUMBER
			3625	

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/679,901	EL-HAJ, MOHAMMAD
	Examiner	Art Unit
	Amee A. Shah	3625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 18 September 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2,4-7 and 9-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,2,4-7 and 9-40 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 18 September 2006 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date: _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claims 1, 2, 4-7 and 9-40 are pending in this action.

Response to Amendment

Applicant's amendment, filed September 18, 2006, has been entered. Claims 1, 2, 4-7, 9, 1, 13-18, 20, 29, 20 and 36 have been amended. Claims 3 and 8 have been cancelled.

Replacement Figure 1 has been accepted and the objections to the drawings are withdrawn. Amendments to the Specification are accepted and the objections regarding trademark use are withdrawn. In light of the amendments to claims 6, 13 and 20, the objections and 35 U.S.C. §112 rejections are withdrawn.

Applicant's amendments to the claims are sufficient to overcome the previous grounds of rejections, presented in the Office Action mailed May 16, 2006, but are rejected under new grounds as detailed below.

Examiner Note

Examiner cites particular pages, columns, paragraphs and/or line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. §103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1, 2, 4-7, 9-15 and 17 are rejected under 35 U.S.C. §103(a) as being unpatentable over Tremain, US 2002/0069369 A1 (hereafter referred to as “Tremain”) in view of Bandhole et al., US 2002/0171678 A1 (hereafter referred to as “Bandhole”)*.

Referring to claim 1. Tremain discloses an apparatus for providing virtual computing services to subscribers on a subscription basis, said apparatus comprising:

- a server computer operable to provide first computing services to a first subscriber of a plurality of subscribers enrolled in a subscription-based services program for the receipt of computing services and provide second computing services to a second subscriber of said plurality of subscribers enrolled in said subscription-based services program for the receipt of computing services (page 4, ¶¶0043-0044); and
- wherein said server computer comprises a first virtual non-volatile storage associated uniquely with said first subscriber and a second virtual non-volatile storage associated uniquely with said second subscriber, said first virtual non-volatile storage being configurable according to said first subscriber and usable to provide said first computing services to said first subscriber, and said second virtual non-volatile storage being configurable according to said second

subscriber and usable to provide said second computing services to said second subscriber (Fig. 4 and pages 4, 13 and 15, ¶¶0043-0044, 0174 and 0196-0201).

Tremain does not disclose the server computer enabling selection of configuration options comprising at least a virtual non-volatile storage capacity configuration and the virtual non-volatile storages associated with each subscriber configured according to the option selected by the subscriber. Bandhole, in the same field of endeavor and/or pertaining to the same issue, discloses a system to provide virtual computing wherein the customer can choose the components and configuration for the computing environment from presented options comprising at least a virtual non-volatile storage capacity configuration and wherein the virtual computer is configured according to the selected options (Fig. 4 and ¶¶0014, 0033, 0034 and 0054 – note the virtual computing is the “dynamic computing environment” or “DCE”).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified the system of Tremain to include the teachings of Bandhole to allow for the subscriber to select configuration options comprising at least a virtual non-volatile storage capacity and to configure the server according to the selected configurations. Doing so would allow for customers to customize their computing services based on the needs at that time, for example using an environment with large computing power and high bandwidth during office hours and limited computing power and bandwidth during off hours to optimize costs, as explicitly disclosed by Bandhole (¶¶0012 and 0057).

* See also Bandhole et al., US 7,036,006 B2, which is the patent of the cited publication. However, all references within this action are to the PG Publication of the application.

Referring to claims 2 and 4. Tremain in view of Bandhole also discloses the apparatus of Claim 1 wherein the configuration options also comprise a plurality of operating systems and a plurality of application computer software programs and said server computer is further operable to configure said first virtual non-volatile storage with the selected operating system or software program of the plurality of systems and programs offered (Bandhole, Fig. 4 and ¶¶0014, 0033, 0034, 0051, 0054 and 0055) to allow for customers to customize their computing services based on the needs at that time, as explicitly disclosed by Bandhole (¶¶0012 and 0057).

Referring to claim 5. Tremain in view of Bandhole discloses the apparatus of Claim 4 wherein said selected application computer software program comprises a word processing program (Bandhole, ¶¶0054 and 0055) to allow for customers to customize their computing services based on the needs at that time, as explicitly disclosed by Bandhole (¶¶0012 and 0057).

Referring to claim 6. Tremain in view of Bandhole discloses the apparatus of Claim 4 wherein said selected application computer software program comprises an electronic mail program (Bandhole, ¶0051) to allow for customers to customize their computing services based on the needs at that time, as explicitly disclosed by Bandhole (¶¶0012 and 0057).

Referring to claim 7. Tremain in view of Bandhole discloses the apparatus of Claim 4 but does not explicitly disclose wherein the computer programs comprise a spreadsheet computer program. Tremain and Bandhole disclose wherein the computer software program can be applications, for example word processing programs or email programs, as discussed above (*see*

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also Tremain, ¶0051), but do not expressly show wherein the application is a spreadsheet programs. However, these differences do not distinguish the claimed apparatus from Tremain in view of Bandhole. Claims directed to an apparatus must be distinguished from the prior art in terms of structure rather than function, *see In re Danly* 263 F.2d 844, 847, 120 USPQ 582, 531 (CCPA 1959). A claim containing a “recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus” if the prior art apparatus teaches all the structural limitations of the claim. *Ex parte Masham*, 2 USPQ2d 1657 (Bd. Pat. App. & Inter. 1987). Thus the structural limitations of claims 6 and 7, including a server capable of configuring the virtual storage with an application program, whether it be a word processing, spreadsheet, web hosting or email program, are disclosed in Tremain in view of Bandhole, as described herein.

Referring to claim 9. Tremain in view of Bandhole also discloses the apparatus of Claim 1 wherein said server computer is further operable to configure said second non-volatile storage in accordance with configuration options paid for by said second subscriber (Bandhole, Figs. 4 and 5, and ¶¶0014, 0033, 0034, 0052, 0054 and 0059) so that customers can concurrently have access to their storage without others having access to it, as disclosed by Bandhole (¶0052).

Referring to claim 10. Tremain in view of Bandhole also discloses the apparatus of Claim 4 wherein said server computer is further operable to establish a communication session with a subscriber device used by said first subscriber and to execute said selected application computer software program stored in said first virtual non-volatile storage during said

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communication session (Tremain, Fig. 1 and ¶¶0169-0171 and Bandhole, Fig. 1C and ¶¶0038-0041).

Referring to claim 11. Tremain in view of Bandhole also discloses the apparatus of Claim 1 wherein said server computer is further operable to establish a communication session with a subscriber device used by said first subscriber and to interact with said subscriber device during said communication session via a user interface selectable by said first subscriber from a plurality of user interfaces (Tremain, Figs. 1 and 2, and ¶¶0169-0171 and 0174 and Bandhole, ¶0043).

Referring to claim 12. Tremain in view of Bandhole also discloses the apparatus of Claim 11 wherein said server computer is further operable to receive data identifying a user interface selected by said first subscriber from said plurality of user interfaces, and to cause the display of said selected user interface on said subscriber device used by said first subscriber (Tremain, ¶0174).

Referring to claim 13. Tremain in view of Bandhole also discloses the apparatus of Claim 1 wherein said server computer is further operable to establish a communication session with a subscriber device used by said first subscriber and to interact with said subscriber device during said communication session via a user interface, and wherein said server computer is further operable to receive data identifying a user interface preferred to be utilized by said subscriber

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device and to cause the display of said preferred user interface on said subscriber device (Tremain, Figs. 1 and 2, ¶¶0169-0171 and 0174).

Referring to claim 14. Tremain in view of Bandhole also discloses the apparatus of Claim 4 wherein said server computer is further operable to configure said first virtual non-volatile storage with said selected application computer software program stored therein in accordance with a configuration option paid for by said first subscriber through payment of a subscription fee (Tremain, ¶¶0044, 0051, 0131 and 0143 and Bandhole, ¶0052).

Referring to claim 15. Tremain in view of Bandhole also discloses the apparatus of Claim 1 wherein said server computer is further operable to configure said first virtual non-volatile storage to have a storage capacity corresponding to said first selected virtual non-volatile storage capacity configuration option selected by said first subscriber and paid for by said first subscriber through payment of a subscription fee (Tremain, ¶¶0044, 0051, 0131 and 0143 and Bandhole, ¶0052).

Referring to claim 17. Tremain in view of Bandhole also discloses the apparatus of Claim 2 wherein said server computer is further operable to update said computer software program of said first virtual non-volatile storage with revisions to said computer software program in accordance with a configuration option selected by said first subscriber (Tremain, ¶0141).

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tremain in view of Bandhole and further in view of Hui, US 2003/0220983 (hereafter referred to as “Hui”).

Referring to claim 16. Tremain in view of Bandhole discloses the apparatus of Claim 2 as discussed above, but does not explicitly disclose wherein said server computer is further operable to replace said selected application computer software program of said first virtual non-volatile storage with a newer version of said selected application computer software program in accordance with a configuration option selected by said first subscriber. Tremain and Bandhole disclose wherein the server is operable to update the computer software program in accordance with a configuration option selected by the subscriber (Tremain, page 10, ¶0141).

Hui, in the same field of endeavor and/or pertaining to the same issue, discloses that it is old and well known in the art to periodically download newer versions of computer software programs (page 1, ¶0005). Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to replace the computer software program during an update with a newer version so that customers can utilize the updated version and all the improvements therein, leading to greater customer satisfaction.

Claims 18-20, 29 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banka et al., US 7,003,481 B2 (hereafter referred to as “Banka”) in view of Bandhole.

Referring to claim 18. Banka discloses a method for providing subscription-based virtual computing services to a subscriber, the method comprising the steps of:

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- enrolling a subscriber in a subscription-based computing services program for the provision of virtual computing services to the subscriber under the subscription-based computing services program through a virtual non-volatile storage allocated uniquely to the subscriber and accessible to the subscriber via a server computer during a communication session between the server computer and a subscriber device used by the subscriber, the virtual computing services corresponding to configuration options selectable by the subscriber (col. 5, lines 47-67 – note the enrollment occurs when the customer enters into a contract);
- enabling access to and use of the virtual non-volatile storage as desired by the subscriber via a server computer during a communication session between the server computer and the subscriber device (col. 5, lines 47-67 and col. 10, line 64 through col. 11, line 13); and
- charging the subscriber in accordance with selected configuration options received from the subscriber (col. 5, lines 47-67 – note the charging is the payment terms).

Banka does not disclose the configuration options comprising at least a virtual non-volatile storage capacity. Bandhole, in the same field of endeavor and/or pertaining to the same issue, discloses a system to provide virtual computing wherein the customer can choose the components and configuration for the computing environment from presented options comprising at least a virtual non-volatile storage capacity configuration and wherein the virtual computer is configured according to the selected options (Fig. 4 and ¶¶0014, 0033, 0034 and 0054 – note the virtual computing is the “dynamic computing environment” or “DCE”).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified the method of Banka to include the teachings of Bandhole to allow for the configuration options to comprise at least a virtual non-volatile storage capacity. Doing so

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would allow for customers to customize their computing services based on the needs at that time, for example using an environment with large computing power and high bandwidth during office hours and limited computing power and bandwidth during off hours to optimize costs, as explicitly disclosed by Bandhole (¶¶0012 and 0057).

Referring to claim 19. Banka in view of Bandhole further discloses the method of Claim 18 wherein the step of enrolling comprises the steps of receiving selected configuration options from the subscriber via the subscriber device (Banka, col. 5, lines 47-67 and col. 9, lines 9-18 and Bandhole, ¶¶0033, 0034 and 0054), and configuring the virtual non-volatile storage in accordance with the selected configuration options received from the subscriber (Banka, col. 5, lines 47-67 and col. 10, line 64 through col. 11, line 13, and Bandhole, ¶¶0033, 0034 and 0054).

Referring to claim 20. Banka in view of Bandhole further discloses the method of Claim 19 wherein one of the selected configuration options is indicative of the subscriber's desire to receive a virtual computing service including access to and use of the virtual non-volatile storage having a selected storage capacity during a subsequent communication session with the subscriber, and wherein the step of configuring comprises a step of allocating the virtual non-volatile storage to the subscriber for access and use by the subscriber during a subsequent communication session with the subscriber (Banka, col. 5, lines 47-67 and col. 10, line 64 through col. 11, line 13).

Referring to claim 29. Banka in view of Bandhole further discloses the method of Claim 18 wherein the step of enrolling comprises the steps of:

- establishing a communication session with a subscriber device used by the subscriber (Banka, Figs. 3A and 3B, col. 6, lines 1-20 and 42-45);
 - causing the display of the selectable configuration options at the subscriber device (Banka, Figs. 3A and 3B, col. 6, lines 42-45), the selectable configurable options comprising a plurality of storage capacity options of the virtual non-volatile storage, a plurality of operating system options, and a plurality of application program options (Bandhole, ¶¶0014, 0033, 0034, 0051, 0054 and 0055) so that customers can concurrently have access to their storage without others having access to it, as disclosed by Bandhole (¶0052);
 - receiving selected configuration options selected by the subscriber from the subscriber device (Banka, Figs. 3A and 3B, col. 6, lines 45-53);
 - determining a cost to the subscriber associated with the provision of the virtual computing services associated with the selected configuration options (Banka, col. 5, lines 54-67);
 - receiving data indicative of the subscriber's agreement to pay the cost associated with the provision of the virtual computing services associated with the selected configuration options (Banka, Figs. 3A and 3B, col. 6, lines 45-61);
 - storing the selected configuration options (Banka, Fig. 9 and col. 12, lines 34-38); and
 - terminating the communication session with the subscriber device (Banka, Figs. 3A and 3B, col. 6, lines 42-61);

Referring to claim 36. All of the limitations in apparatus claim 36 are closely parallel to the limitations of method claim 18, analyzed above and are rejected on the same bases.

Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banka in view of Bandhole and further in view of Tremain.

Referring to claims 21 and 22. Banka in view of Bandhole discloses the method of Claim 19 as discussed above but does not explicitly disclose wherein one of the selected configuration options is indicative of the subscriber's desire to receive a virtual computing service including the use of an operating system or application computer software program that is installable into the virtual non-volatile storage of the subscriber for execution by a server computer during a subsequent communication session with the subscriber, and wherein the step of configuring comprises a step of installing the operating system or applicant computer software program in the virtual non-volatile storage of the subscriber for execution by a server computer and use by the subscriber during a subsequent communication session with the subscriber.

Tremain, as discussed above, discloses a method for providing virtual computing services including wherein one of the selected configuration options is indicative of the subscriber's desire to receive a virtual computing service including the use of an operating system or application computer software program that is installable into the virtual non-volatile storage of the subscriber for execution by a server computer during a subsequent communication session with the subscriber, and wherein the step of configuring comprises a step of installing the operating system or applicant computer software program in the virtual non-volatile storage of

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the subscriber for execution by a server computer and use by the subscriber during a subsequent communication session with the subscriber (page 4, ¶¶0044 and 0051).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified the method of Banka in view of Bandhole to include the teachings of Tremain to allow for one of the selected configuration options to be indicative of the subscriber's desire to receive a virtual computing service including the use of an operating system or application computer software program that is installable into the virtual non-volatile storage of the subscriber for execution by a server computer during a subsequent communication session with the subscriber, and wherein the step of configuring comprises a step of installing the operating system or applicant computer software program in the virtual non-volatile storage of the subscriber for execution by a server computer and use by the subscriber during a subsequent communication session with the subscriber. Doing so would increase the flexibility and options of virtual computing in a way to increase customer satisfaction and use of the services, as suggested by Tremain (page 11, ¶0148).

Claims 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banka in view of Bandhole further in view of Tremain and further in view of Hui.

Referring to claims 23-26. Banka in view of Bandhole discloses the method of Claim 18, as discussed above, wherein the step of enrolling comprises the steps of receiving selected configuration options from the subscriber via the subscriber device (Banka, col. 5, lines 47-67), but does not disclose wherein one of the selected configuration options is indicative of the subscriber's desire to receive a virtual computing service including the automatic updating of an

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operating system computer software program stored in the virtual non-volatile storage of the subscriber with patches therefor, and wherein the method further comprises a step of automatically updating the operating system computer software program stored in the virtual non-volatile storage of the subscriber with patches therefor.

Tremain, as discussed above, discloses a method for providing virtual computing services including wherein one of the selected configuration options is indicative of the subscriber's desire to receive a virtual computing service including the automatic updating of an operating system computer software program stored in the virtual non-volatile storage of the subscriber, and wherein the method further comprises a step of automatically updating the operating system computer software program stored in the virtual non-volatile storage of the subscriber (page 10, ¶0141)

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified the method of Banka in view of Bandhole to include the teachings of Tremain to allow for one of the selected configuration options to be indicative of the subscriber's desire to receive a virtual computing service including the automatic updating of an operating system computer software program stored in the virtual non-volatile storage of the subscriber with patches therefor, and wherein the method further comprises a step of automatically updating the operating system computer software program stored in the virtual non-volatile storage of the subscriber with patches therefor. Doing so would increase the flexibility and options of virtual computing in a way to increase customer satisfaction and use of the services, as suggested by Tremain (page 11, ¶0148).

Banka in view of Bandhole in view of Tremain does not disclose wherein the automatic updating is done with either newer versions or patches to the program. Hui, in the same field of endeavor of downloading programs, discloses that it is old and well known in the art to download newer versions and patches of computer software programs (page 1, ¶0005). Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to update the computer software program with a newer version or patches so that customers can utilize the updated version and all the improvements therein, leading to greater customer satisfaction.

Claims 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banka in view of Bandhole further in view of Tremain and further in view of Forster, US 2004/0220980 A1 (hereafter referred to as “Forster”).

Referring to claims 27 and 28. Banka in view of Bandhole discloses the method of Claim 18, as discussed above, wherein the step of enrolling comprises the steps of receiving selected configuration options from the subscriber via the subscriber device (Banka, col. 5, lines 47-67), but does not disclose wherein one of the selected configuration options is indicative of the subscriber's desire to receive a virtual computing service including the automatic nightly or weekly backup of the virtual non-volatile storage of the subscriber, and wherein the method further comprises a step of automatically backing up the virtual non-volatile storage of the subscriber on a nightly basis.

Tremain, as discussed above, discloses a method for providing virtual computing services including wherein one of the selected configuration options is indicative of the subscriber's

desire to receive a virtual computing service including the automatic nightly backup of the virtual non-volatile storage of the subscriber, and wherein the method further comprises a step of automatically backing up the virtual non-volatile storage of the subscriber (pages 8 and 9, ¶¶0109-0112).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified the method of Banka in view of Bandhole to include the teachings of Tremain to allow for one of the selected configuration options to be indicative of the subscriber's desire to receive automatic backup of the virtual non-volatile storage of the subscriber, and wherein the method further comprises a step of automatically backing up the virtual non-volatile storage of the subscriber on a nightly basis. Doing so would increase the flexibility and options of virtual computing in a way to increase customer satisfaction and use of the services, as suggested by Tremain (page 11, ¶0148).

Forster, in the same field of endeavor and/or pertaining to the same issue, discloses periodically backing up storage on a nightly or weekly basis (page 3, ¶0031). Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to back up the files on a nightly or weekly basis to ensure that in the case of a computer malfunction or other problem, all data are recoverable from the backup, saving the customer time and increasing his satisfaction.

Claims 30-35 and 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banka in view of Bandhole and further in view of Whitney, US 2003/0115442 A1, cited by Applicant (hereafter referred to as “Whitney”).

Referring to claim 30. Banka in view of Bandhole discloses the method of Claim 18 wherein the step of enabling access to and use of the virtual non-volatile storage comprises the steps of: establishing a communication session with a subscriber device used by the subscriber for the communication session (Banka, col. 6, lines 1-20 and 42-45); performing a task associated with the received user interface option (Banka, col. 6, lines 54-61); and terminating the communication session with the subscriber device (Banka, col. 6, lines 42-61). Banka et al. does not disclose determining a preferred user interface for use by the subscriber device, the preferred user interface having a plurality of user interface options selectable by the subscriber using the subscriber device and corresponding to respective performable tasks; causing the display of the preferred user interface at the subscriber device; and receiving a user interface option selected from the displayed user interface by the subscriber.

Whitney, in the same field of endeavor and/or pertaining to the same issue, discloses a method of managing a logical partition on logically-partitioned multi-user computer, including determining a preferred user interface for use by the subscriber device, the preferred user interface having a plurality of user interface options selectable by the subscriber using the subscriber device and corresponding to respective performable tasks; causing the display of the preferred user interface at the subscriber device; and receiving a user interface option selected from the user interface by the subscriber (page 5, ¶0051).

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At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have modified the method of Banka in view of Bandhole to include the teachings of Whitney to allow for determining a preferred user interface for use by the subscriber device, the preferred user interface having a plurality of user interface options selectable by the subscriber using the subscriber device and corresponding to respective performable tasks; causing the display of the preferred user interface at the subscriber device; and receiving a user interface option selected from the user interface by the subscriber. Doing so would facilitate communication between the user and server, increasing customer satisfaction.

Referring to claim 31. Banka in view of Bandhole further in view of Whitney discloses the method of Claim 30, as discussed above, wherein the step of determining comprises the steps of: collecting information from the subscriber device indicative of the subscriber device type while establishing the communication session with the subscriber device; and ascertaining the user interface most often used with the subscriber device type (Banka, col. 10, lines 30-60).

Referring to claim 32. Banka in view of Bandhole further in view of Whitney discloses the method of Claim 30, as discussed above, wherein the step of determining comprises a step of receiving a selection of a user interface from the subscriber via the subscriber device during the communication session indicative of the user interface that the subscriber desires to use at the subscriber device (Banka, col. 10, lines 30-60).

Referring to claims 33-35. Banka in view of Bandhole further in view of Whitney discloses the method of Claim 30, as discussed above, wherein the step of performing comprises the steps of: determining whether the task associated with the received user interface option corresponds to a data file upload, download or execute task; and upon determining that the task associated with the received user interface option corresponds to a data file upload, download or execute task, causing the uploading of a data file from the subscriber device to the virtual non-volatile storage of the subscriber (Whitney, pages 5-6, ¶0056) in order to facilitate the virtual computing.

Referring to claims 37-40. All of the limitations in apparatus claims 37-40 are closely parallel to the limitations of method claims 30-32 and 35, analyzed above and are rejected on the same bases.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (1) Bandhole et al., US 2002/0049803 A1, discloses system and method of providing virtual computing services to a customer (*see, e.g.*, pages 2-8). (2) Huang et al., US 2002/0091697 A1, discloses a method and system for providing virtual desktops in a virtual computing environment, including updating files (*see, e.g.*, pages 2-11). (3) Tormasov et al., US 2002/0124072 A1, and US 7,099,948 B2, discloses a method of efficient utilization of a hardware system with a virtual computing environment (*see, e.g.*, pages 1-3 of PG Pub.).

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amee A. Shah whose telephone number is 571-272-8116. The examiner can normally be reached on Mon.-Fri. 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Smith can be reached on 571-272-6763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AAS

November 14, 2006



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